

CLAIMS

Now, therefore, the following is claimed:

1. A communication system, comprising:
a location indicator communicatively coupled to each of a plurality of transceivers, the location indicator indicative of whether the plurality of transceivers are located at an intermediate terminal or a central office; and
logic configured to control a physical layer of each of the transceivers based on the location indicator.
2. The communication system of claim 1, wherein the location indicator is a one-bit indicator.
3. The communication system of claim 1, wherein the location indicator comprises a mechanical switch.
4. The communication system of claim 1, wherein the location indicator comprises an electrical pin.
5. The communication system of claim 1, wherein the location indicator comprises a data value stored in memory.

6. The communication system of claim 1, wherein the logic is configured to control a bandwidth of at least one of the transceivers based on the location indicator.

7. The communication system of claim 1, wherein the logic, based on the location indicator, is configured to control a power level of a signal transmitted by one of the transceivers.

8. The communication system of claim 1, wherein the location indicator is remotely located from the plurality of transceivers.

9. The communication system of claim 8, wherein a network is configured to transmit data indicative of the location indicator to the plurality of transceivers via an operational control channel of the network.

10. A communication system, comprising:
a first transceiver residing at a premises, the first transceiver coupled to a feeder distribution interface (FDI) and configured to communicate with a remote transceiver through the FDI based on a set of operational control settings; and
a location indicator indicative of whether a distance from the first transceiver to the FDI is substantially less than a distance from a central office transceiver to the FDI,
wherein the first transceiver is further configured to establish its set of operational control settings based on the location indicator.

11. The communication system of claim 10, wherein the location indicator is a one-bit indicator.

12. The communication system of claim 10, wherein the location indicator comprises a mechanical switch.

13. The communication system of claim 10, wherein the location indicator comprises an electrical pin.

14. The communication system of claim 10, wherein the location indicator comprises a data value stored in memory.

15. The communication system of claim 10, wherein the first transceiver is configured to adjust, based on the location indicator, a setting within its set of control settings for controlling a bandwidth of a signal transmitted by the first transceiver.

16. The communication system of claim 10, wherein the first transceiver is configured to adjust, based on the location indicator, a setting within its set of control settings for controlling a power level of a signal transmitted by the first transceiver.

17. A communication system, comprising:
a plurality of transceivers; and
means for indicating whether the plurality of transceivers are located at an intermediate terminal or a central office, the indicating means communicatively coupled to each of the plurality of transceivers,
wherein each of the plurality of transceivers comprises a means for controlling the one transceiver based on the indicating means.

18. A communication method, comprising the steps of:
providing a transceiver;
transmitting, to the transceiver, data indicating whether the transceiver is located at an intermediate terminal or a central office; and
controlling a physical layer of the transceiver based on the data.

19. The communication method of claim 18, wherein the data is based on a state of a mechanical switch.

20. The communication method of claim 18, wherein the data is based on an electrical pin.

21. The communication method of claim 18, further comprising the step of retrieving the data from memory.

22. The communication method of claim 18, further comprising the step of transmitting a signal from the transceiver to a remote transceiver, wherein the controlling step comprises the step of controlling a frequency of the signal.

23. The communication method of claim 18, further comprising the step of transmitting a signal from the transceiver to a remote transceiver, wherein the controlling step comprises the step of controlling a power level of the signal.

24. The communication method of claim 18, wherein the transmitting step comprises the step of transmitting the data over a network.

25. The communication method of claim 18, further comprising the step of transmitting a signal from the transceiver to a remote transceiver, wherein the controlling step comprises the step of controlling a power level of the transceiver as a function of frequency of the signal.

26. A communication method, comprising the steps of:
transmitting a signal from a transceiver to a feeder distribution interface (FDI);
indicating, via a location indicator, whether a distance from the transceiver to the FDI is substantially less than a distance from a central office transceiver to the FDI; and
controlling a physical layer of the first transceiver based on the location indicator such that an amount of crosstalk interfering with signals transmitted by the central office transceiver is reduced.

27. The communication method of claim 26, wherein the signal is transmitted through a cable, and wherein the method further comprises the step of transmitting a signal from the central office transceiver through the cable.

28. The communication method of claim 26, wherein the controlling step comprises the step of controlling a frequency of the signal transmitted by the first transceiver.

29. The communication method of claim 26, wherein the controlling step comprises the step of controlling a power level of the signal transmitted by the first transceiver.

30. The communication method of claim 26, further comprising the step of transmitting data indicative of the location indicator over an operational control channel of a network.